

NITINOL

Transforming UNIQUENESS into PROSPERITY

Nitinol is unique! We unleash the potential of the intelligent properties and open up a wide range of new possibilities for your ambitious applications. Robotics, imaging, smart implants – shaping the future together!



ENDOSMART®
Nitinol in its best shape.

NITINOL IN ITS BEST SHAPE!

The shape memory alloy is named after its place of discovery, the research facility:

Nickel **T**itanium **N**aval **O**rdnance **L**aboratory

When the material is deformed in a cool state, it returns to its original shape after heating. The distinctive feature of Nitinol is characterized by this reversible solid phase change, known as martensitic transformation. The alloy material forms a crystalline structure capable of changing from one form to another. Temperature change and/or strain induce this transformation.

Above its transformation temperature, Nitinol is superelastic and thus can resist some degree of deformation when a load is applied. Once the load is removed, it returns to its original shape.

Below its transformation temperature, Nitinol is subject to the thermal shape memory effect. After deformation, it will remain in this state until it is heated above the transformation temperature so that it returns to its original shape.



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ISO 13485